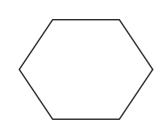
Sum of Interior Angles

Example:

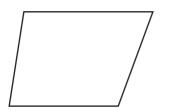


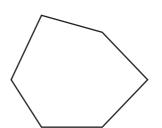
Sum of the interior angles = $(Number of sides - 2) \times 180^{\circ}$

$$= (6 - 2) \times 180^{\circ}$$

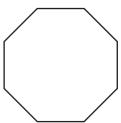
$$=4*180^{0}=720^{0}$$

Find the sum of interior angles for each polygon.





3)



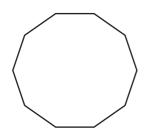
Number of sides =

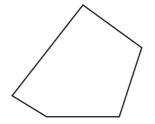
Number of sides =

Number of sides =

Sum of the interior angles = Sum of the inter

4)







Number of sides =

Number of sides = (

Number of sides =

Sum of the interior angles =:

Sum of the interior angles =:

`; Sum of the interior angles =

regular 19-gon

regular 12-gon

regular 15-gon

Number of sides = (



Number of sides = (

Number of sides =

Sum of the interior angles =

Sum of the interior angles = Sum of the interior angles =

10)

regular 14-gon

11)

12)

regular 20-gon

Number of sides = (

Number of sides = (

Number of sides =

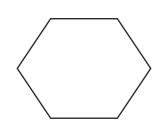
Sum of the interior angles =

regular 17-gon

Sum of the interior angles = Sum of the interior angles =

Answer key

Example:



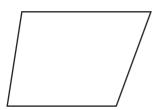
Sum of the interior angles = $(Number of sides - 2) \times 180^{\circ}$

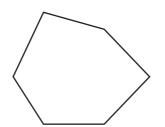
$$= (6 - 2) \times 180^{\circ}$$

$$=4*180^{0}=720^{0}$$

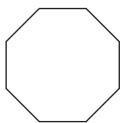
Find the sum of interior angles for each polygon.

1)





3)



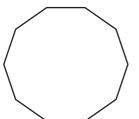
Number of sides = (4

Number of sides = 6

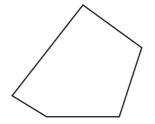
Number of sides $= \frac{1}{3}$

Sum of the interior angles = (360°) Sum of the interior angles = (720°) Sum of the interior angles = (1080°)

4)



5)





Number of sides = (10)

Number of sides = (5

Number of sides =

Sum of the interior angles = (1440°) Sum of the interior angles = (540°) Sum of the interior angles = (540°)

7)

regular 19-gon

regular 12-gon

regular 15-gon

Number of sides = (19)

Number of sides = (12) Number of sides = (15

Sum of the interior angles = $\begin{pmatrix} 3060^{\circ} \end{pmatrix}$ Sum of the interior angles = $\begin{pmatrix} 2340^{\circ} \end{pmatrix}$ Sum of the interior angles = $\begin{pmatrix} 2340^{\circ} \end{pmatrix}$

10) regular 14-gon

11)

regular 17-gon

12)

regular 20-gon

Number of sides = (14) Number of sides = (20

Sum of the interior angles = (2160°) Sum of the interior angles = (2700°) Sum of the interior angles = (3240°)